

ABSTRACT

An ultrasonic levitation device, comprising a fixed part and a movable part movably installed on the fixed part, wherein thin ultrasonic
5 vibrators are installed on the fixed part or the movable part and, for example, floating surfaces are formed, in sloped surfaces, stacking piezoelectric elements are installed on the fixed part or the movable part, plate oscillating devices are installed on the fixed part or the movable part
10 through pillar members, or the direction of ultrasonic vibration of the fixed part or the movable part is changed by a vibrating direction changing means, whereby the movable part can be floated through the floating surfaces by ultrasonic vibration of the fixed part or the movable part.